

IV. AVIATION SAFETY

1. Office Administration

a. Commander's Responsibilities

- (1) Has the Commander published a policy that outlines his/her overall safety philosophy? (*AR 385-95, para 1-6a(2); V CORPS Safety SOP, Part XVI, 4a;*) **P / F / NA**
- (2) Have current safety goals, objectives, and priorities been developed and included in quarterly training guidance? (*AR 385-95, para 1-6a(3)*) **P / F / NA**
- (3) Are there written Standing Operating Procedures (SOP) for all functional areas and for all operations within the command? (*AR 385-95, para 3-3 and para 1-6a(4)*) **P / F / NA**
- (4) Have risk control measures been integrated into SOPs? Does the SOP include risk-management procedures and responsibilities, command levels authorized to accept each level of risk, and pre-accident plans? (*AR 385-95, para 1-6a(4)(b)*) **P / F / NA**
- (5) Is the ASO a member of the commander's special staff, and does the commander rate the ASO? (*AR 385-95, para 1-4j(3); FM 101-5*) **P / F / NA**
- (6) Is the ASO assigned to a TDA/TOE authorized position? (*AR 385-95, para 1-4j(2)*) **P / F / NA**
- (7) If a TDA/TOE position does not exist for an ASO, is an additional duty ASO formally appointed? (*AR 385-95, para 1-4j(3)(b)*) **P / F / NA**
- (8) Are additional duty ASOs graduates of the Aviation Safety Officer Course? (*AR 385-95, para 1-4j(3)(c)*) **P / F / NA**
- (9) Is a safety trained (SQI A2) noncommissioned officer (NCO) appointed by unit commander, in writing, to assist the ASO? (*AR 385-95, para 1-4j(3)(c)*) **P / F / NA**

b. ASO's Responsibilities

- (1) Does the ASO advise and assist the commander and staff in the development of safety goals, objectives, and priorities? (*AR 385-95, para 1-6d(1)*) **P / F / NA**
- (2) Does the ASO assist with integration of the commander's safety goals, objectives, and priorities into the quarterly training guidance? (*AR 385-95, para 1-6d(1)(b)*) **P / F / NA**
- (3) Does the ASO review each assigned and attached aviator's flight records and the unit training program to identify systems defects and to design countermeasures? (*AR 385-95, para 1-6d(6)(j)*) **P / F / NA**
- (4) Does the ASO gather and disseminate flight safety literature and develop programs to promote safety awareness? (*AR 385-95, para 1-6d(6)(i)*) **P / F / NA**

(5) Does the ASO maintain a current library of safety regulations, aircraft accident prevention directives, and instructional materials? (*AR 385-95, para 1-6d(6)(h-i), AR 385-95 appendix A, AR 385-10, para 5-2v, AR 385-10 appendix A, V Corps Safety SOP annex A*) **P / F / NA**

(6) Does the Safety Officer review regulations and SOPs that direct the safety program annually? (*V CORPS Safety SOP, Part I, para 5*) **P / F / NA**

(7) Does the ASO maintain a close working relationship with the maintenance officer, the flight standardization officer, the flight surgeon, and ground safety personnel? (*AR 385-10, para 5-2p; AR 385-95 para 1-6d(6)(l)*) **P / F / NA**

(8) Does the ASO maintain functional MARKS files? (*AR 25-400-2, table B-66*) **P / F / NA**

(9) Does the ASO maintain a suspense file (unit hazard tracking log) on safety deficiencies to ensure appropriate corrective actions are taken? Is the log maintained as a permanent reference for future hazard analysis? Are all hazards risk assessed in terms of hazard severity and accident probability? (*AR 385-95, para 1-6d(6)(n) and 3-1f*) **P / F / NA**

c. Risk Management

(1) Is the risk management process integrated in the planning and execution of training and operations? (*AR 385-95, par 1-6 a. (5-10), AR 95-1, para 3-16, chap 3; FM 100-14; FM 101-5, pg 4-7 and Appendix J*) **P / F / NA**

(2) Are risk reduction measures integrated into operation plans and operation orders as appropriate? (*FM 101-5; FM 100-14, chap 3, Appendix H-3*) **P / F / NA**

(3) Is the ASO complying with the Risk Management process responsibilities? (*AR 385-95, par 1-6 b. (5)(a-c), FM 100-14, chap 3; V Corps Safety SOP, Part II 3c*) **P / F / NA**

(4) Does the commander ensure that the unit's risk assessment is systematically observed and assessed during training and operations? (*AR 385-95, par 1-6 a. (7)*) **P / F / NA**

d. Aviation Accident Prevention Survey (AAPS)

(1) Does the ASO perform an aviation accident prevention survey at least semiannually to annotate the physical condition of all areas within unit control that affect aviation operations and document hazards, operator errors, systems defects, and possible countermeasures? (*V CORPS Safety SOP, Part XV 4f; AR 385-95, para 3-2a*) **P / F / NA**

(2) Does the ASO recommend to the commander effective countermeasures, implementation procedures, and control measures designed to eliminate identified root causes? (*AR 385-95, para 1-6d(5)(c) and 3-1c; V CORPS Safety SOP Part XV f(2)(b)*) **P / F / NA**

(3) Are follow-up inspections made to ensure appropriate countermeasures have been adopted by the commander? (*AR 385-95, para 3-2d*) **P / F / NA**

e. Safety Education

(1) Does the ASO plan, promote, and conduct monthly safety education/training sessions? (*AR 385-95, para 1-6d(6)(c) and 3-5*) **P / F / NA**

(2) Do unit files reflect dates, subjects, speakers, and attendance of the monthly safety training?
(AR 385-95, para 3-5; V CORPS Safety SOP, Part XV, 4e) **P / F / NA**

(3) Have monthly safety meetings been programmed at least 12 months out and included in the unit training schedule? (AR 385-95, para 3-5c) **P / F / NA**

(4) Is monthly safety training being conducted as applicable for ground/maintenance personnel?
(AR 385-95, para 1-6f(2) and 3-5) **P / F / NA**

(5) Has an effective make-up system been established that ensures personnel not able to attend a safety training meeting receive same quality of training? (AR 385-95, para 3-5c) **P / F / NA**

f. Command Safety Councils (AR 385-95, para 1-6a(11) and 3-4)

(1) Is a command aviation safety council (CSC) established in writing? **P / F / NA**

(2) Does the commander preside over safety council meetings, and does the ASO act as recorder?
P / F / NA

(3) Is membership appropriate for the unit? **P / F / NA**

(4) Does the commander review and approve the minutes? **P / F / NA**

(5) Are council recommendations implemented? **P / F / NA**

(6) Does the unit have an enlisted aviation safety council established in writing (ESC)?
P / F / NA

(7) Does the 1SG or CSM preside over the enlisted aviation safety council? **P / F / NA**

(8) Are hazards identified during the council meetings assessed IAW AR 385-10, para 3-9?
P / F / NA

(9) Are Command/Enlisted council minutes forwarded to next higher command? (V Corps Safety SOP, para XV) **P / F / NA**

(10) Does the CSC/ESC meet quarterly as a minimum? **P / F / NA**

g. Pre-Accident Plan

(1) Has an effective pre-accident plan been developed, published, and rehearsed at least quarterly to ensure currency? (AR 385-95, para 1-6c(7) and (8), 1-6d(6)(e), 2-3 and Appendix C) **P / F / NA**

(2) Has the unit developed a pre-accident plan for off-airfield operations (i.e. FTXs, deployments, war, etc.)? (AR 385-95, para 2-3c(3)) **P / F / NA**

(3) Is the pre-accident plan included in the unit SOP? (AR 385-95, para 1-6a(4)(b))
P / F / NA

(4) Is the system used to notify the ASO of a mishap timely and dependable? (*AR 385-95, para 2-3c(2)*) **P / F / NA**

(5) Does the ASO provide technical assistance in the development of the pre-accident plan? (*AR 385-95, para 2-3 a. (1)*) **P / F / NA**

h. Abbreviated Aviation/Ground Accident Reports (AR 385-40)

(1) Are DA Forms 2397-AB-R and DA Forms 285-AB-R completed accurately and submitted on all aircraft mishaps as appropriate? (*AR 385-40, para 2-8; DA Pam 385-40*) **P / F / NA**

(2) Have any mishaps been reported, or reports completed, after the allowed time table for processing accident reports? If so, why? (*AR 385-40, Tables E-1 and E-2*) **P / F / NA**

(3) Does the ASO review all DA Form 2397-AB-R and DA Form 285-AB-R messages submitted and is a file maintained? (*AR 385-95, para 1-6d(6)(d)*) **P / F / NA**

(4) Are aircraft precautionary and forced landings investigated to determine causes? (*AR 385-40, para 4-1*) **P / F / NA**

(5) Is follow-up action taken to correct the causes of forced landings or submit EIRs / QDR's as appropriate? (*AR 385-40, para 1-4d and e; DA PAM 738-751, para 3-2*) **P / F / NA**

(6) Are ground mishaps, both aviation (engines not operational) and nonaviation, investigated and reported on DA Form 285 as appropriate? (*AR 385-40, para 2-2, note*) **P / F / NA**

i. Safety Boards

(1) Does the unit maintain electrical safety boards for maintenance personnel? (*TB 385-4*) **P / F / NA**

(2) Does the unit maintain safety bulletin boards for crewmembers and maintenance personnel? Are safety council minutes posted? (*TM 1-1500-204-23-1 and AR 385-95 para 3-4e*) **P / F / NA**

(3) Is posted material timely, pertinent, and replaced frequently to maintain reader interest? (*TM 1-1500-204-23-1 para 2-5*) **P / F / NA**

j. Safety Awards

(1) Is there an active safety awards program (both unit and individual) in the unit? (*AR 385-95, para 1-6d(6)(q); AR 672-74, para 1-4d; V Corps Safety SOP*) **P / F / NA**

(2) Does the ASO monitor the safety awards program to ensure qualifying crewmembers, crewchiefs, vehicle operators, fuel handlers, and other support personnel are nominated for safety awards? (*AR 385-95, para 1-6d(6)(q)*) **P / F / NA**

(3) Are Unit Safety Awards for Class A – C aviation accident free hours being submitted? (*AR 672-74; V Corps Safety SOP*) **P / F / NA**

k. Operational Hazard Report

- (1) Are OHRs (DA Form 2696) readily available? (*AR 385-95, para 2-1*) **P / F / NA**
- (2) Does the ASO use OHRs to identify system inadequacies and develop countermeasures? (*AR 385-95, para, 1-6d(6)(m) and chap 2*) **P / F / NA**
- (3) Does the maintenance officer monitor QDR, EIR, and MWO records, and is pertinent information disseminated to all crewmembers? (*AR 385-95, para 1-6f(6) and (7)*) **P / F / NA**
- (4) Does the ASO ensure that OHRs are prepared for verbally reported hazards? (*AR 385-95, para 2-1 e. (2)(f)*) **P / F / NA**
- (5) Does the ASO actively promote the OHR program? (*AR 385-95, para 2-1 e. (2)*) **P / F / NA**

l. Foreign Object Damage Prevention

- (1) Has a FOD program been established? (*AR 385-95, para 2-2b(2)*) **P / F / NA**
- (2) Is a unit FOD prevention officer designated in writing? (*AR385-95, para 2-2c(1)(a)*) **P / F / NA**
- (3) Is FOD prevention and FOD accidents reviewed at all unit safety meetings? (*AR 385-95, para 2-2c(1)(c)*) **P / F / NA**
- (4) Is a unit FOD control checklist used for use by FOD prevention officer/NCO/unit personnel? (*AR 385-95 para 2-2b(3)*) **P / F / NA**
- (5) Are monthly FOD inspections being conducted? (*AR 385-95, para 2-2c(2)(d)*) **P / F / NA**

2. Hazardous Materials Management

a. Hazard Communication

- (1) Does the unit have a written hazard communication plan? (*29 CFR 1910.1200e*) **P / F / NA**
- (2) Have unit personnel received hazard communications training? (*29 CFR 1910.1200h; UR 385-10, para 9; Section X(9)(a); V Corps Safety SOP*) **P / F / NA**
- (3) Are Material Safety Data Sheets (MSDS) maintained in the work place and readily available for personnel working with hazardous chemicals? (*29 CFR 1910.1200g; UR 385-10, 4j(10)*) **P / F / NA**

b. Hazardous Materials Storage and Use

- (1) Does the unit have a written Hazardous Material Handling SOP addressing use, disposal, and emergency spill response for garrison and field environments? (*AR 200-1, para 1-32; V CORPS Safety SOP, Section X, para 2*) **P / F / NA**

(2) Do supervisors maintain an inventory of hazardous material? (29 CFR 1919.120e(1)(i); AR 200-1, para 4-3b; UR 385-104j(1)) **P / F / NA**

(3) Are flammable and combustible liquids maintained in the immediate work area stored in approved storage cabinets? (These cabinets must be designed and constructed to limit the internal temperature not more than 325 degrees F. when subjected to a 10-minute fire test as set forth in NFPA Code 251. The bottom, top, door, and sides of the cabinet must be at least No. 18 gauge sheet iron and double walled with 1 1/2-inch air space.) (29 CFR 1910.106(d)(3); 29 CFR 1910.106(d)(5)(iii)) **P / F / NA**

(4) Are approved storage cabinets used to store flammable liquids labeled "FLAMMABLE-KEEP FIRE AWAY"? (29 CFR 1910.106(d)(3)(II)) **P / F / NA**

(5) Are there provisions to contain the liquid in the event of spillage (liquid-tight raised sills or ramps at least four (4) inches in height) inside storage rooms? (29 CFR 1910.106(d)(4)(i); 29 CFR 1910.106(f)(7)) **P / F / NA**

(6) Are outside storage buildings located fifty (50) feet or more from a building or line of adjoining property that may be built upon (buildings located within fifty (50) feet must have a two (2) hour fire resistant wall)? (29 CFR 1910.106(d)(5)(vi)) **P / F / NA**

(7) Is a portable fire extinguisher located outside of, but not more than ten (10) feet from the door opening into any room or building used for storage? (29 CFR 1910.106(d)(7)(i)(a)) **P / F / NA**

c. Compressed Gas

(1) Is each portable gas container legibly marked with the name of contents? (29 CFR 1910.253(b)(ii)) **P / F / NA**

(2) Are compressed gas cylinders stored and secured so they cannot fall? (29 CFR 1910.253(b)(2)(ii)) **P / F / NA**

(3) Are protective caps in place on compressed gas cylinders except when in use? (29 CFR 1910.253(b)(2)(iv); 29 CFR 1910.253(b)(5)(ii)(G); AR 700-68, Para 5-1a(13)) **P / F / NA**

(4) Are full cylinders protected against excessive rise in temperature from direct rays of the sun or from sources of heat not to exceed 130 degrees F? (29 CFR 1910.253(b)(2)(i); AR 700-68 Para 5-2) **P / F / NA**

(5) Is smoking prohibited within 50 feet of compressed gas storage areas and "NO SMOKING " signs posted? (AR 700-68 Para 5-2b) **P / F / NA**

(6) Are oxygen cylinders in storage separated from combustible material (especially oil or grease), a minimum distance of 20 feet or by a non-combustible barrier at least five feet high having a fire resistant rating of at least 1/2 hour? (29 CFR 1910. 253(b)(4)(iii)) **P / F / NA**

(7) Are acetylene and oxygen cylinders stored 100 feet apart or separated by an approved firewall having a fire resistant rating of at least 1/2 hour? (29 CFR 1910. 253(b)(4)(iii); AR 700-68, Para 5-3a(1)) **P / F / NA**

(8) When cylinders are standing upright during use or storage, have precautions been taken to prevent accidental upsetting or falling (chained or strapped to structure)? (29 CFR 1910.253(b)(2)(ii); AR 700-68, Para 5-1a(18)) **P / F / NA**

d. Protective Clothing and Equipment

(1) Is proper protective clothing and equipment available in the work place when working with hazardous chemicals? (AR 385-10, para 2-2j; UR 385-10, para 4 j) **P / F / NA**

(2) Do supervisors ensure personnel use protective clothing and/or equipment when working with hazardous chemicals? (AR 385-10; UR 385-10, para 4k) **P / F / NA**

(3) Are suitable facilities available for quick drenching or flushing of the eyes and body within work areas where persons may be exposed to injurious corrosive material? (29 CFR 1910.151(c)) **P / F / NA**

(4) Are first aid kits with an adequate quantity of first aid supplies approved by the consulting physician readily available? (29 CFR 1910.151(b)) **P / F / NA**

(5) Is personal protective equipment provided, used, and maintained in a sanitary and reliable condition? (29 CFR 1910.132(a)) **P / F / NA**

e. Respiratory Protection Program

(1) Are there written standard operating procedures governing the selection and use of the respirators? (29 CFR 1910.134(b)(1); 29 CFR 1910.134(e)(3)) **P / F / NA**

(2) Have work areas been surveyed (documented) for confined spaces and respiratory protection requirements? (AR 11-34, pg 4, para 2-5g; V Corps Safety SOP, Part V, para 3) **P / F / NA**

(3) Does each individual have their own respirator and is it fitted for the individual? (AR 11-34, pg 6, para 3-5 (2)) **P / F / NA**

(4) Have all personnel in the program been medically evaluated for respirator use? (AR 11-34, pg 3, para 1-5b) **P / F / NA**

(5) Are initial and annual training programs established for all personnel that use respirators? (AR 11-34, pg 7, para 2-9; V Corps Safety SOP, Part V, para 3) **P / F / NA**

(6) Are monthly PMCS completed and documented on all respirators? (AR 11-34, pg 6, para 3-6d) **P / F / NA**

(7) If confined spaces are identified by the worksite surveys is there a SOP covering confined space entry procedures? (AR 11-34 para 3-3; 29 CFR 1910.146) **P / F / NA**

f. Environmental Protection Program

(1) Are there written Standard Operating Procedures detailing the Environmental Protection Program? (AR 385-95 para 2-15a; AR 200-1 para 1-32d) **P / F / NA**

(2) Has an environmental Compliance / Management Officer been appointed on orders? (AR 200-1, para 1-32; V CORPS Safety SOP, Section X, para 1b) **P / F / NA**

(3) Has the ECO attended a Hazardous Materials Handling Course, (HAZ 12)? *(AR 200-1, para 1-32; V Corps Safety SOP, Section X)* **P / F / NA**

(4) Has a spill contingency plan been developed? *(AR 200-1, para 4-3k)* **P / F / NA**

(5) Are the appropriate records detailing the Environmental Protection Program being maintained IAW the MARKS system? *(AR 25-400-2, Table B-46)* **P / F / NA**

3. Fire Prevention

a. Fire Prevention Program

(1) Is there a unit fire prevention and protection program established and kept in the work place? *(29 CFR 1910.38 (b); V CORPS Safety SOP, Section XI, para 2a)* **P / F / NA**

(2) Does the commander appoint unit fire marshals and building wardens in writing? *(V CORPS Safety SOP, Section XI, para 2a)* **P / F / NA**

(3) Are monthly fire inspections conducted and documented? *(29 CFR 1910.156 (d)/.157(e); V CORPS Safety SOP, Section XI, 2d)* **P / F / NA**

(4) Are risk assessments conducted and countermeasures developed for all fire hazards identified during inspections? *(AR 385-10, para 3-9)* **P / F / NA**

b. Fire Extinguishers

(1) Are fire extinguishers serviceable and dispersed appropriately? *(29 CFR 1910.157; AR 420-90, para 7-8)* **P / F / NA**

(2) Are monthly inspections of fire extinguishers complied with? *(29 CFR 1910.157(e)(2))* **P / F / NA**

(3) Is training in the use fire extinguishers conducted annually? *(29 CFR 1910.157(g))* **P / F / NA**

(4) Is the accumulation of flammable and combustible waste materials and residues controlled? *(29 CFR 1910.38(b)(3))* **P / F / NA**

4. Hearing Conservation

a. Administration

(1) Is there a SOP tailored to the unit? *(DA PAM 40-501, para 1-4i(2))* **P / F / NA**

(2) Has the commander appointed a unit hearing conservation manager? *(DA PAM 40-501, para 1-4i(1))* **P / F / NA**

(3) Are the appropriate personnel enrolled in the hearing conservation program and do they receive audiometric evaluations as appropriate? *(DA PAM 40-501, para 1-4i(7))* **P / F / NA**

(4) Is health education conducted and documented for all noise-exposed personnel at least annually? (*DA PAM 40-501, para 8-1*) **P / F / NA**

b. Implementation

(1) Have noise hazard areas been surveyed by an industrial hygienist? (*DA PAM 40-501, para 4-1*)

P / F / NA

(2) Are noise-hazardous areas and equipment marked with proper danger signs and decals? (*DA PAM 40-501, para 1-4i(11)*)

P / F / NA

(3) Where employees are subjected to sound at or above 85 decibels (dBA) on the A scale, are feasible administrative or engineering controls utilized? If such controls fail to reduce sound levels within 85 dBA, is personal protective equipment provided to those employees? Are those employees required to wear the personal protective equipment? (*29 CFR 1910.95; TB MED 501*)

P / F / NA

5. Hangar Safety

a. Electrical Safety

(1) Have areas with 500 volts rms (root-means-square) or greater been posted with safety signs indicating "HIGH VOLTAGE" and a current of 25 amperes or more been identified with a safety sign indicating "HIGH CURRENT"? (*AR 385-30, para 3-7, Table 3-1 and 3-2*)

P / F / NA

(2) Is installed electrical equipment free from recognized hazards likely to cause death or serious physical harm to employees? (*29 CFR 1910.303(b); 29 CFR 1910.179(g)(2)(i)*)

P / F / NA

(3) Do plugs fit firmly when inserted into mating connector or receptacle? (*NEC 16-8, para 16-8.1*)

P / F / NA

(4) Is sufficient access and working space (30 inches wide) provided and maintained about all electric equipment to permit ready and safe operation and maintenance of such equipment? (*29 CFR 1910.303(g)(1)(ii)*)

P / F / NA

(5) Are flexible cords and cables protected from accidental damage? (*29 CFR 1910.305(a)(2)(iii)(g); NEC 305-4(h)*)

P / F / NA

(6) Is motor operated equipment (i.e. hand held motor operated tools, portable hand lamps, refrigerators, air conditioners, etc.) properly grounded with a three prong plug (appliances protected by an approved system of double insulation need not be grounded)? (*29 CFR 1910.304(f)(5)(v)*)

P / F / NA

(7) Are flexible cords and cables prohibited from use as a substitute for permanent wiring of a structure, and prohibited from being run through holes in walls, ceilings, or floors, running through doorways, windows, or similar openings? (*29 CFR 1910.305(g)(1)(iii); NEC 305-4(h); NEC 400-8*)

P / F / NA

(8) Are flexible cords and power equipment missing pins, deformed or damage to outer jacket or insulation or possible internal damage? (*29 CFR 1910.334(a)(2)*)

P / F / NA

b. Machine Tool Safety

- (1) Is compressed air used for cleaning purposes reduced to less than 30 psi? (29 CFR 1910.242(b)) **P / F / NA**
- (2) Is effective chip guarding and personnel protective equipment provided and utilized? (29 CFR 1910.242(b)) **P / F / NA**
- (3) Are hand-held power tools equipped with a constant pressure switch or control that will shut off the power when the pressure is released? (29 CFR 1910.243(a)(2)(i)) **P / F / NA**
- (4) Are hand-held tools equipped with a constant pressure switch or control and a lock-on switch? Can turnoff be accomplished by a single motion of the same finger or fingers that turned it on? (29 CFR 1910.243(a)(2)(ii)) **P / F / NA**

c. Fire Awareness Safety

- (1) Are emergency egress fire safety lanes in the hangar clearly marked and unobstructed? (29 CFR 1910.37(c); TM1-1500-204-23-1, para 2-5c(7)) **P / F / NA**
- (2) Are oily rags stored in closed metal containers and are they properly labeled? (FM 3-04.500, pg E-4) **P / F / NA**
- (3) Are required numbers and types of fire extinguishers available for the hangar? (FM 3-04.500, pg E-9; AR 420-90, para 7-8) **P / F / NA**
- (4) Are all fire extinguishers properly charged, periodically tested, and ready for instant use? (FM 3-04.500, pg E-9; AR 420-90, pg 10, para 7-8) **P / F / NA**

d. Parking of Aircraft and Equipment in Hangars

- (1) Are aircraft parked in hangars spaced a sufficient distance apart to provide adequate clearance for maintenance, servicing, and fire lanes? (TM 1-1500-204-23-1, para 2-6b) **P / F / NA**
- (2) Are all aircraft parked in the hangar static-grounded from basic structure of aircraft to a low resistance ground? (TM 1-1500-204-23-1, para 2-6b) **P / F / NA**
- (3) After parking aircraft inside the hangar, are aircraft chocked securely and aircraft parking brakes released? (TM 1-1500-204-23-1, para 2-6b) **P / F / NA**
- (4) Are aircraft fuel cells fully serviced prior to being parked or stored in a hangar? (TM 1-1500-204-23-1, para 2-6c) **P / F / NA**
- (5) Are drip pans used and cleaned on a daily basis? (TM 1-1500-204-23-1, para 2-6d) **P / F / NA**
- (6) Do aircraft grounding wires conform to the specifications of TM 1-1500-204-23-1, Figure 3-1 and are they inspected monthly? (TM 1-1500-204-23-1, para 2-6f) **P / F / NA**
- (7) Are all ammunition and pyrotechnics removed from the aircraft before maintenance and prior to putting aircraft in hangars? (FM 3-04.500, pg E-7) **P / F / NA**

(8) Are all aircraft batteries disconnected while in the hangar? *(TM 1-1500-204-23-1, para 2-5a)*

P / F / NA

(9) Do fuel powered equipment (tugs, AGPUs, aircraft) parked in hangars overnight have full fuel cells? *(TM 1-1500-204-23-1, pg 2-9, para 2-6c)*

P / F / NA

(10) Is AGSE grounded at all times when in contact with the aircraft being worked on? *(TM 1-1500-204-23-1, para 2-6h)*

P / F / NA

e. Jacking and Hoisting Procedures

(1) During jacking of aircraft are all structural panels installed? *(TM 1-1500-204-23-1, para 2-7a(2))*

P / F / NA

(2) During jacking procedures for tricycle landing gear, are tail stands used and are the tail wheels locked in place? *(TM 1-1500-204-23-1, para 2-7a)*

P / F / NA

(3) Is their sufficient clearance above the aircraft being jacked? *(TM 1-1500-204-23-1, para 2-7a)*

P / F / NA

(4) Are aircraft on jacks labeled (i.e. roped off, signs indicating ACFT ON JACKS) and access limited to prevent injury? *(TM 1-1500-204-23-1, para 2-7a)*

P / F / NA

(5) Have adequate control measures been enplaned so that unauthorized personnel are not working on, in, or underneath aircraft supported by jacks or during hoisting operations? *(TM 1-1500-204-23-1, para 2-7a)*

P / F / NA

(6) Are the retractable landing gear down-lock pins installed prior to lowering aircraft? *(TM 1-1500-204-23-1, para 2-7a)*

P / F / NA

(7) Are ropes used to guide the aircraft during hoisting operations? *(TM 1-1500-204-23-1, para 2-7b)*

P / F / NA

f. Temporary Shop Installation

(1) Are temporary shops installed and maintained IAW TM 1-1500-204-23-1? *(TM 1-1500-204-23-1, para 2-3)*

P / F / NA

(2) Are all compressed gas storage areas properly marked, provide protection from the elements and are empty cylinders stored appropriately and separately from full cylinders? *(AR 700-68, para 5-9)*

P / F / NA

g. Foreign Object Damage

Are proper safety procedures practiced to prevent FOD when maintenance is performed on turbine engines? *(FM 3-04.500, pg E-4)*

P / F / NA

h. Location, Marking and Testing of Static Ground Points

(1) Are the static grounding points within the hangar marked with a yellow circle 18 inches in diameter, with a 2 inch black border surrounding it? *(TM 1-1500-204-23-1, para 2-6e)*

P / F / NA

(2) Are the words STATIC GROUND CONNECTION and a numeric or alphanumeric identification of the grounding rod stenciled in black on the yellow circle? *(TM 1-1500-204-23-1, para 2-6e)* **P / F / NA**

(3) Are logs kept for all permanent or semi-permanent airfields to show the identification of each rod, the date tested, and the reading in ohms? *(TM 1-1500-204-23-1, para 2-6f)* **P / F / NA**

(4) Are defective grounding points marked immediately by stenciling "DEFECTIVE - DO NOT USE" on the yellow circle and are they removed or replaced as soon as possible? *(TM 1-1500-204-23-1, para 2-6f)* **P / F / NA**

6. Flight Line Safety

a. Hearing Protection

(1) Do all maintenance personnel wear hearing protection in the performance of their duties while aircraft are operating? *(TM 1-1500-204-23-1, para 3-2a)* **P / F / NA**

(2) Are noise hazard areas identified and posted? *(DA PAM 40-501, para 1-4j(11))* **P / F / NA**

b. Foreign Object Damage

(1) Are parking areas, runways, taxiways, run up and exhaust areas policed regularly to ensure against the presence of foreign object damage? *(TM 1-1500-204-23-1, para 3-2b)* **P / F / NA**

(2) Is the unit periodically instructing personnel concerned with aircraft maintenance of foreign object hazards to ensure that maximum preventive measures are taken? *(TM 1-1500-204-23-1, para 3-2b)* **P / F / NA**

(3) Are air inlet and tailpipe covers installed at all times on aircraft when engines are not operating? *(TM 1-1500-204-23-1, para 3-2b)* **P / F / NA**

c. Safety Around Aircraft

(1) Is safety around aircraft being accomplished through keeping clear of the plane of rotation of propellers, rotor blades, and engine exhaust? *(TM 1-1500-204-23-1, para 3-2c)* **P / F / NA**

(2) During engine operation, are the following precautions taken: head aircraft so that exhaust blast is directed to the least inhibited area, place chocks on main landing gear, clear aircraft and surrounding area of covers, tools, rags, work stands, and remove mooring ropes, etc.? *(TM 1-1500-204-23-1, para 3-10a)* **P / F / NA**

(3) If aircraft are to be parked in rows, are aircraft positioned in rows to most effectively reduce propeller wash during engine operation? *(TM 1-1500-204-23-1, 3-2d)* **P / F / NA**

d. Parking and Mooring of Aircraft

(1) Are mooring devices installed (as specified by the applicable mooring and tie-down manual) and mooring ropes used on the aircraft in a 45 degree angle and chains tightened to remove slack? *(TM 1-1500-250-23)* **P / F / NA**

(2) Are aircraft that are placed in storage not moored within 750 feet from the center of the nearest taxiway? *(TM 1-1500-204-23-1, para 3-2d)* **P / F / NA**

(3) Are chocks (fore and aft) utilized on aircraft main landing gear wheels? *(TM 1-1500-204-23-1, para 3-2d)* **P / F / NA**

(4) Are pitot static covers installed at all times? *(TM 1-1500-204-23-1, para 3-2d)* **P / F / NA**

(5) Are aircraft properly prepared if parked/stored outside during storms? *(TM 1-1500-204-23-1, para 3-2e)* **P / F / NA**

e. Flight Line Equipment Maintenance

Is all flightline equipment inspected and functionally checked to ensure safety prior to use? *(TM 1-1500-204-23-1, para 3-2f)* **P / F / NA**

f. Reflectorizing of Equipment

(1) Is all non-tactical ground support equipment (which is normally painted yellow) outlined with reflective tape to ensure high visibility during low light level operations? *(TM 1-1500-204-23-1, para 3-2g)* **P / F / NA**

(2) Is all support equipment which cannot be taped with reflectorizing tape (tactical vehicles, tractors, sweepers, occasional use vehicle, etc.) displaying a white-orange checkered flag conforming to MIL-F-40047, NSN 8345-00-027-3704? *(TM 1-1500-204-23-1, para 3-2, para 3-2g(3))* **P / F / NA**

g. Static Grounding of Aircraft

(1) Are all aircraft parked outside that need to be serviced by an AGPU grounded during AGPU operations? *(TM 1-1500-204-23-1, para 3-4a)* **P / F / NA**

(2) Are aircraft parked outside grounded and bonded while servicing (i.e. fueling, defueling, arming ammunition or explosives, oxygen, hydraulic fluids, or any flammable fluids)? *(TM 1-1500-204-23-1, para 3-4a)* **P / F / NA**

(3) Are flightline grounding points marked and tested? *(FM 10-67-1, pg 2-11)* **P / F / NA**

h. Aircraft Servicing

(1) Is proper personnel protective clothing used during refueling operations? *(FM 10-67-1, pg 2-24)* **P / F / NA**

(2) Are only qualified personnel authorized to operate equipment for servicing of an aircraft oxygen system? *(TM 1-1500-204-23-1, para 3-7)* **P / F / NA**

(3) Are all aircraft restricted from oxygen servicing when the following exists: aircraft electrical switches are on, ground power unit operated within 50 feet of the servicing area, aircraft being serviced with fuel - oil - or anti-icing fluids, any combustible items are evident around oxygen servicing equipment? *(TM 1-1500-204-23-1, para 3-7a)* **P / F / NA**

(4) During servicing of hydraulic systems, are measures taken to eliminate contamination caused by the use of previously opened cans of hydraulic fluid? *(TM 1-1500-204-23-1, para 3-8)*

P / F / NA

(5) Are unsealed hydraulic fluid containers considered contaminated and destroyed? *(FM 3-04.500, pg E-5; TM 1-1500-204-23-1, para 3-8)*

P / F / NA

(6) During pneumatic system servicing, is pressure oxygen to inflate gear shock struts, pressure accumulators, etc. used? *(TM 1-1500-204-23-1, para 3-9a)*

P / F / NA

(7) Are flight and ground crew familiar with fuel servicing and defueling operations? *(FM 3-04.500, pg E-2)*

P / F / NA

(8) Are fully charged, appropriate type, and number of fire extinguishers readily accessible in areas where aircraft are parked? *(AR 420-90, para 7-8)*

P / F / NA

(9) Are clean fuel sample bottles available and are samples taken during pre-flight and disposed of IAW unit SOP? *(FM 3-04.500, pg E-2)*

P / F / NA

i. Fire Awareness Safety

(1) Is smoking prohibited within 50 feet of aircraft? *(FM 3-04.500, pg E-2)*

P / F / NA

(2) Are the appropriate number and type of fire extinguishers available for the number and type of aircraft parked on the flightline? *(AR 420-90, para 7-8b)*

P / F / NA

(3) Are the required amount of first aid kits and fire extinguishers available in each aircraft? *(FM 3-04.500, pg E-2)*

P / F / NA

7. Shop Safety

a. Maintenance Shops, General

(1) Are shop areas clean? *(TM 1-1500-204-23-1, para 2-2i.)*

P / F / NA

(2) Are oily rags stored in closed metal containers properly marked? *(TM 1-1500-204-23-1, para 2-5c(8))*

P / F / NA

(3) Are all exits free and unobstructed to allow for easy egress (exit) from buildings when occupied? *(29 CFR 1910.36(b)(4))*

P / F / NA

(4) Are building exits marked with readily visible exit signs? Do readily visible signs in all cases mark access to exits where the exit or way to reach it is not immediately visible to the occupant? *(29 CFR 1910.37(q)(1))*

P / F / NA

(5) Are dip tanks positively grounded and electrically bonded to prevent static electric sparks? *(29 CFR 1910.108(d))*

P / F / NA

(6) Are the areas in the vicinity of dip tanks kept as clear of combustible stock as practical and kept entirely free of combustible debris? *(29 CFR 1910.108(f)(1))*

P / F / NA

(7) Are "NO SMOKING" signs posted in the vicinity of the dip tanks? (29 CFR 1910.108(f)(4))
P / F / NA

(8) Are covers kept closed when tanks are not in use? (29 CFR 1910.108(g)(6)(iv)) **P / F / NA**

(9) Is effective chip guarding and personnel protective equipment provided and utilized? (29 CFR 1910.242(b)) **P / F / NA**

(10) Are machines designed for a fixed location securely anchored to prevent walking or moving? (29 CFR 1910.212(b)) **P / F / NA**

(11) Does the safety guard on abrasive wheel machinery cover the spindle end, nut and flange projections? (29 CFR 1910.215(a)(2)) **P / F / NA**

(12) Are bench grinders equipped with a tongue guard? (29 CFR 1910.215(b)(9)) **P / F / NA**

b. Avionics Shop

(1) Is there a training program that provides personnel with information concerning safety practices? (AR 385-10, para 2-2b; TB 385-4, para 1-6) **P / F / NA**

(2) Does the avionics shop safety board have the recommended items posted? (TB 385-4, para 3-2 and 3-21) **P / F / NA**

(3) Are rubber floor mats or similar insulating materials provided in front of repair positions? (TB 385-4, para 3-2b) **P / F / NA**

(4) Are hazardous power sources (other than 110-volt convenience outlets) appropriately color-coded? (70 to 500 volts with yellow and black danger signs, >500 volts with red, white and black danger signs). (TB 385-4, para 3-2e) **P / F / NA**

(5) Is test equipment properly grounded? (TB 385-4, para 7-2d) **P / F / NA**

c. Armament Shop

(1) Are personnel involved with laser operations trained on laser hazards? (TB 385-4, para 1-4c) **P / F / NA**

(2) Are rubber floor mats or similar insulating materials provided in front of repair positions, where electrical shock is possible? (TB 385-4, para 3-2b) **P / F / NA**

(3) Is electrical equipment properly grounded? (TB 385-4, para 7-1 and 7-2) **P / F / NA**

(4) Are individuals removing jewelry before performing maintenance? (TM 1-1500-204-23-9, para 2-8b(1)(j)) **P / F / NA**

(5) Are ground safety pins installed in the aircraft after each flight? (TM 9-1055-460-13&P, para 3-5a and 3-5b) **P / F / NA**

(6) Are jettison cartridges removed before maintenance or storage of aircraft? (Appropriate Aircraft manual) **P / F / NA**

(7) Are aircraft properly safed before entry into hangars? *(TM 9-1055-460-13&P, Appropriate aircraft manual)* **P / F / NA**

(8) Are warning labels placed on aircraft laser components? *(TB 385-4, para 4-4)* **P / F / NA**

d. Battery shop

(1) Is there a current Battery Shop SOP located in the Battery Shop? *(TB 385-4, para 1-5)* **P / F / NA**

(2) Are battery maintenance personnel properly trained to inspect and charge batteries? *(TM 11-6140-203-23, Appendix b; AR 750-1, para 3-9a)* **P / F / NA**

(3) Is a quick drenching facility for flushing eyes and body provided within close proximity of the battery shop? *(TB 384-4 para 3-2d)* **P / F / NA**

(4) Is the battery-charging area adequately ventilated to prevent the accumulation of explosive gasses? *(TB 385-4, para 3-2d)* **P / F / NA**

(5) Is protective equipment available and used in the battery shop? *(TB 385-4, para 3-17b)* **P / F / NA**

(6) Does the battery shop safety board have the recommended items posted? *(TB 385-4, para 3-2 and 3-21)* **P / F / NA**

REFERENCES:

AR 385-10	29 Feb 00	AR 385-40	1 Nov 94, Change 2
AR 385-95	29 Dec 99	FM 100-14	23 Apr 98
AR 25-400-2	1 Oct 01	FM 101-5	31 May 97
AR 95-1	1 Sep 97	FM 3-04.500	26 Sep 00
AR 672-74	28 Apr 95	DA PAM 385-40	1 Nov 94, Change 2
AR 700-68	16 Jan 90	DA PAM 40-501	10 Dec 98
AR 11-34	15 Feb 90	DA PAM 738-751	15 Mar 99
AR 200-1	21 Feb 97	TC 1-210	8 Jan 96
AR 420-90	10 Sep 97	29 CFR 1910	On line live updates